

**What is claimed is:**

- 1        1. A method for manufacturing a speaker diaphragm, said method  
2        comprising the steps of:
  - 3                disposing a resin speaker diaphragm made by one of injection
  - 4                molding and sheet forming by heating in a reactive chamber;
  - 5                disposing an electrode outside said reactive chamber; and
  - 6                activating the surface of said speaker diaphragm by applying plasma
  - 7                while keeping the temperature inside said reactive chamber below the heat
  - 8                deformation temperature of said speaker diaphragm.
- 1        2. The method for manufacturing a speaker diaphragm as defined in  
2        Claim 1, wherein a plurality of said resin speaker diaphragms are placed inside a in  
3        said reactive chamber at a certain interval so as to apply plasma substantially  
4        uniformly.
- 1        3. The method for manufacturing a speaker diaphragm as defined in  
2        Claim 1, wherein isocyanate primer is applied after plasma treatment.
- 1        4. The method for manufacturing a speaker diaphragm as defined in  
2        Claim 2, wherein isocyanate primer is applied after plasma treatment.
- 1        5. The method for manufacturing a speaker diaphragm as defined in  
2        Claim 1, wherein one of monopolymer and copolymer of polyolefin such as  
3        polyethylene and polypropylene is used as a material for said speaker diaphragm.

1               6. The method for manufacturing a speaker diaphragm as defined in  
2    Claim 2, wherein one of monopolymer and copolymer of polyolefin such as  
3    polyethylene and polypropylene is used as a material for said speaker diaphragm.

1               7. The method for manufacturing a speaker diaphragm as defined in  
2    Claim 3, wherein one of monopolymer and copolymer of polyolefin such as  
3    polyethylene and polypropylene is used as a material for said speaker diaphragm.

1               8. The method for manufacturing a speaker diaphragm as defined in  
2    Claim 4, wherein one of monopolymer and copolymer of polyolefin such as  
3    polyethylene and polypropylene is used as a material for said speaker diaphragm.

1               9. A speaker diaphragm manufactured in accordance with the steps  
2    of:

3               disposing a resin speaker diaphragm made by one of injection  
4    molding and sheet forming by heating in a reactive chamber;  
5               disposing an electrode outside said reactive chamber; and  
6               activating the surface of said speaker diaphragm by applying plasma  
7    while keeping the temperature inside said reactive chamber below the heat  
8    deformation temperature of said speaker diaphragm.

1               10. The speaker diaphragm as defined in Claim 9, wherein  
2    isocyanate primer is applied after plasma treatment.

1                   11. The speaker diaphragm as defined in Claim 9, wherein one of  
2 monopolymer and copolymer of polyolefin such as polyethylene and  
3 polypropylene is used as a material for said speaker diaphragm.

1                   12. The speaker diaphragm as defined in Claim 10, wherein one of  
2 monopolymer and copolymer of polyolefin such as polyethylene and  
3 polypropylene is used as a material for said speaker diaphragm.

1                   13. A speaker at least comprising:  
2                   a magnetic circuit;  
3                   a frame connected to said magnetic circuit; and  
4                   a speaker diaphragm whose inner circumference being connected to  
5                   a voice coil embedded in a magnetic gap of said magnetic circuit, and outer  
6                   circumference being bonded to said frame;  
7                   wherein said speaker diaphragm is one of that defined in Claims 9 to  
8                   12.

1                   14. A speaker at least comprising:  
2                   a magnetic circuit;  
3                   a frame connected to said magnetic circuit; and  
4                   a speaker diaphragm whose inner circumference being connected to  
5                   a voice coil embedded in a magnetic gap of said magnetic circuit, and outer  
6                   circumference being bonded to said frame via an edge;  
7                   wherein said speaker diaphragm is one of that defined in Claims 9 to  
8                   12.